

DataGuard[®] FRC

CST Armoured Fire Survival Fibre Optic Cable

Application

A dual Low Smoke Zero Halogen jacketed, steel armoured fibre optic cable with enhanced fire survival properties according to BS8434-2 for installation in the most extreme environments.



Cable Design

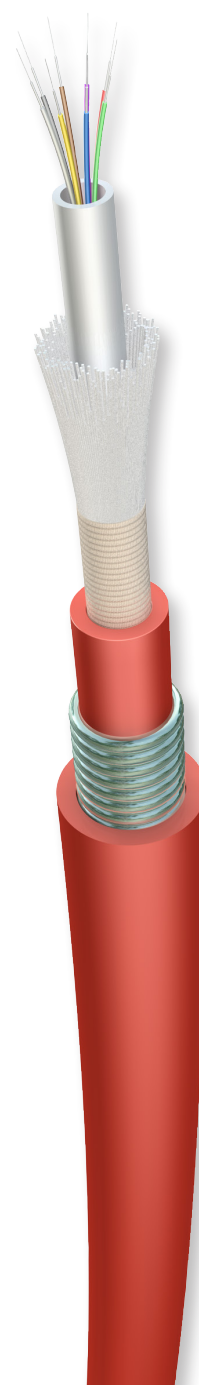
Fibre	250 µ diameter colour coded acc. to EIA-598
Loose tube	Thermoplastic material PBT, jelly filled. White
Strength elements	Glass yarns
Wrapping	Fire resistant glass tape
Inner jacket	LSZH thermoplastic compound, Red
Armour	Corrugated steel tape
Outer jacket	LSZH thermoplastic compound, Red

Characteristics

- Fire resistant
- Fire retardant
- Flame retardant
- Water blocking construction
- Rodent resistant

Physical Data

Static/working temperature		-20/+80 °C
Flex/installation temperature		-5/+65 °C
Min. bending radius (static)	IEC 60794-1-21-E11	10 x overall diameter
Min. bending radius (dynamic)	IEC 60794-1-21-E11	20 x overall diameter
Crush	IEC 60794-1-21-E3	2500 N/100 mm for 15 min.



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Fire Performance

Flame retardant	IEC 60332-1-2
Fire retardant	IEC 60332-3-22 Cat. A
Fire resistant	IEC 60331-25 (no fibre break)
Fire resistant	BS 8434-2 (no fibre break)
Acid gas emission	IEC 60754-2 (pH >=4.3, Conductivity ≤ 10 μS/mm)
Smoke density	IEC 61034-2 (Light transmittance ≥ 60%)

Specification

Part Number	N° of Fibres	Tube Diameter mm	Cable Diameter (±10%) mm	Net Weight (±10%) kg/km	Tension load (0,3%) N
FRC-04*ST04	4	2,7	11,3	160	1000
FRC-08*ST04	8	2,7	11,3	160	1000
FRC-12*ST04	12	2,7	11,3	160	1000
FRC-16*ST04	16	3,5	12,3	180	1000
FRC-24*ST04	24	3,5	12,3	180	1000

* denotes fibre type required : 01=62.5/125 OM1 | 02 = 50/125 OM2 | 03 = 50/125 OM3 | 04 = 50/125 OM4 | 08 = 9/125
 e.g. 24 core single mode 9/125 = FRC-2408ST04